



Title 17 Innovative Energy Loan Guarantee Program

Financing American Energy Innovation

Agenda

Intro to LPO

Value of LPO Financing • LPO Portfolio • LPO Programs

Title 17 Overview

Innovative Technology Solicitations:

Advanced Fossil Energy
Advanced Nuclear Energy
Renewable Energy & Efficient Energy

- Flexible Financing
- Loan Transaction Process



Financing American Energy Infrastructure

The Department of Energy's Loan Programs Office (LPO)

was established for borrowers seeking access to debt financing for energy infrastructure projects.

With over \$40 billion in available debt capital, LPO programs finance high-impact projects and first-time commercializations, partnering with borrowers to customize deal structures.



Access to Debt Capital

that private lenders cannot or will not provide.



Flexible Financing

customized for the specific needs of individual borrowers.



A Committed Partner

offering expertise to borrowers for the lifetime of the project.

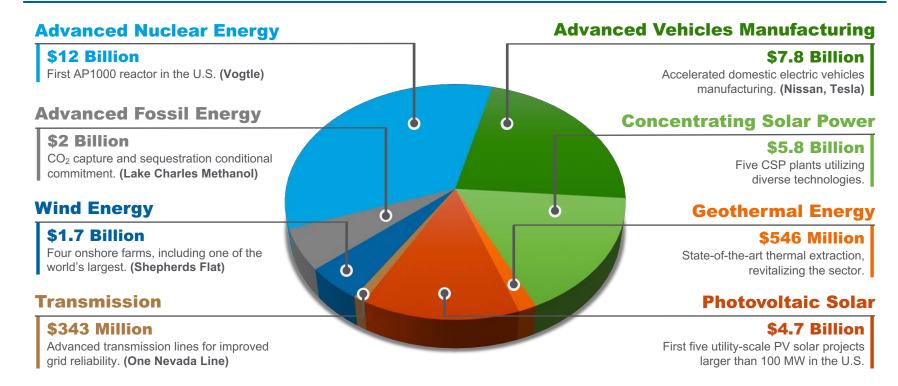
Over \$35 Billion in Energy Deals Financed

More than 30 projects of broadly distributed technologies across the United States.



A Diverse Portfolio of Innovative Technologies

LPO financed-projects have catalyzed new energy technologies and supported thousands of jobs.



\$40 Billion in Available Debt Capital

LPO offers project financing across energy sectors through three distinct loan programs.







Advanced Technology Vehicle Manufacturing \$17.7 Billion Available



TELGPPartial Loan Guarantees



Tribal Energy Projects

Up to \$2 Billion Available





Advanced Fossil Energy



\$8.5 Billion in Loan Guarantees Available

(Including \$2 Billion conditionally committed to Lake Charles Methanol)

LPO helps bring advanced fossil energy projects to commercial scale through its Title 17 Innovative Energy Loan Guarantee Program.

Financing

LPO provides access to debt capital for energy projects using innovative technology when commercial lenders cannot or will not provide financing.

Eligibility

LPO can consider advanced fossil energy projects that:

- 1. Use innovative technology.
- Reduce, avoid, or sequester greenhouse gas emissions or air pollutants.
- 3. Are located in the U.S.
- 4. Provide reasonable prospect of repayment.

Technologies

Technology areas of interest include, but are not limited to:

- Advanced Resource Development
- · Carbon Capture
- Efficiency Improvements
- Low-Carbon Power Systems





Advanced Nuclear Energy

\$10.9 Billion in Loan Guarantees Available

(Including \$2 Billion specifically for front-end projects)

LPO helps bring advanced nuclear energy projects to commercial scale through its Title 17 Innovative Energy Loan Guarantee Program.

Financing

LPO provides access to debt capital for energy projects using innovative technology when commercial lenders cannot or will not provide financing.

Eligibility

LPO can consider advanced nuclear energy projects that:

- 1. Use innovative technology.
- 2. Reduce, avoid, or sequester greenhouse gas emissions.
- 3. Are located in the U.S.
- 4. Provide reasonable prospect of repayment.

Technologies

Technology areas of interest include, but are not limited to:

- Advanced Nuclear Reactors
- Front-End Nuclear
- Small Modular Reactors (SMRs)
- Uprates & Upgrades at Existing Facilities





Renewable Energy & Efficient Energy

Up to \$4.5 Billion in Loan Guarantees Available



Financing

LPO provides access to debt capital for energy projects using innovative technology when commercial lenders cannot or will not provide financing.

Eligibility

LPO can consider renewable & efficient energy projects that:

- 1. Use innovative technology.
- 2. Reduce, avoid, or sequester greenhouse gas emissions.
- 3. Are located in the U.S.
- 4. Provide reasonable prospect of repayment.

Technologies

Technology areas of interest include, but are not limited to:

- Advanced Grid Integration & Storage
- Alternative Fuel Vehicle Infrastructure
- Distributed Energy Projects
- Efficiency Improvements
- Enhancement of Existing Facilities
- Offshore Wind & Related Infrastructure
- Waste-To-Energy



EV or Alternative Fueling Infrastructure

Projects could be eligible through two LPO loan programs:

ATVM

Direct Loans Eligibility:

Manufacturing

of Infrastructure



Title 17

Loan Guarantees Eligibility:

Deployment

of Infrastructure

For both programs, eligibility includes associated hardware and software for EV and alternative vehicle fuels such as hydrogen, liquefied natural gas (LNG), compressed natural gas (CNG), and biofuels.

Offering Flexible Financing Solutions

LPO can provide affordable, custom financing to meet the specific needs of individual borrowers.

- ✓ **Loan Type** | Direct loan from U.S. Treasury's Federal Financing Bank (FFB) backed by 100% DOE guarantee or DOE partial guarantee of commercial loans.
- ✓ Affordable Debt | Senior secured, fixed or floating rate debt.
- ✓ **Competitive Pricing** | Equal to U.S. Treasury-equivalent yield curve plus a credit risk premium, typically ranging from 37.5 to 200 basis points.
- ✓ **Long Tenor** | Tenor of up to 30 years or 90% of projected useful life of assets financed.
- ✓ **Flexible Deal Structures** | Structures may include project finance, structured corporate, corporate or warehousing lines.
- ✓ DOE Role | Can serve as sole lender or as a co-lender.
- ✓ **Debt Amount Determination** | Debt amount based on credit profile, business plan, market risk, technology, cash flows, project risk allocation and other relevant factors, up to 80% of total project costs.
- ✓ Viability Standard | Emphasis placed on certainty of cash flow to the project during initial financial viability review and during subsequent due diligence.



Title 17 Loan Transaction Process

LPO engages early with applicants and remains a partner throughout the lifetime of the loan.



Pre-Application Consultations

Meet with LPO for no-fee, pre-application consultations to review project 1) technical eligibility and 2) financial viability and bankability.

Formal Application Submission

Submit Part I application to LPO to determine basic eligibility, followed by a more thorough Part II application to determine project viability.

The Part I application fee is \$50,000 and must be paid when an application is submitted. If invited to submit a Part II application, the fee is \$350,000 (or \$100,000 for projects requesting loans not exceeding \$150 million).

Part I monthly application deadlines are scheduled through January 2022.

Due Diligence & Term Sheet Negotiation

Enter confirmatory due diligence and negotiate term sheet.

Any third-party advisor costs are paid for by the applicant.

Credit Approval Process

Formal approval process of the term sheet, including interagency consultations.

Loan Closing & Project Monitoring

Negotiate and execute loan documents using the approved term sheet. Loan closing and funding are subject to conditions precedent in the executed loan documents.

After loan closing, LPO monitors the loan.



More Variable Timing Length of these stages varies greatly, depending on project complexity and readiness.



Less Variable Timing Timing for these stages is largely fixed, with targeted timelines.





Let's Talk About Your Project

Contact LPO to see what financing options may be available for your project:



Call or write to schedule a no-fee, pre-application consultation: 202-586-8336 | Ipo@hq.doe.gov



Learn more about LPO and all of its lending programs at: energy.gov/LPO